## **ABSTRACT**

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A prism sheet having a concave pentagonal structure is disclosed. The prism sheet comprises a base layer, and a prism array disposed on and supported by the base layer. The prism array is composed of a plurality of prisms aligned in parallel and one beside the other. The transversal cross-section of each prism has a shape of concave pentagon, which is symmetrical about a vertical line passing the apex. The interior angle  $\alpha$  of the apex is  $30^{\circ} \leq \alpha \leq 120^{\circ}$ , the exterior angle  $\beta$  formed by the upper slant side and the lower slant side is  $\beta < 180^{\circ}$ , the interior angle  $\gamma$  of the lower vertex formed by the lower slant side and the base is  $5^{\circ} \leq \gamma \leq 85^{\circ}$  and the length w of the base is  $30\mu m \leq w \leq 100\mu m$ . Preferably, the interior angle  $\alpha$  of the apex may be  $40^{\circ} \leq \alpha \leq 100^{\circ}$ , the exterior angle  $\beta$  formed by the upper slant side and the lower slant side may be  $160^{\circ} \leq \beta \leq 179^{\circ}$ , and the interior angle  $\gamma$  of the lower vertex formed by the lower slant side and the base may be  $30^{\circ} \leq \gamma \leq 60^{\circ}$ . Preferably, the length w of the base may be  $40\mu m \leq w \leq 60\mu m$ .